

REMARKS

Claims 1-50 are pending. No claim has been allowed.

Restriction Requirement Under 35 U.S.C. § 121

The Office has requested a restriction to one of the following inventions under 35 U.S.C. § 121: Groups I-LXII (claims 1-35), drawn to method of assaying homocysteine, S-adenosylhomocysteine or adenosine with a mutant SAH hydrolase which comprises the amino acid sequence set forth in SEQ ID NO: 1 and comprises the mutation R38E, C53S, L54G, T57G, T57S, E59D, N80G, S83G, Y100T, K121A, D131E, D134E, E155G, T157G, T158Y, T159Y, N181D, N181A, D190A, N191A, L214A, Y221S, K226A, F235S, U40L, N248A, D263G, G269D, R285D, D292G, H301T, K309R, K322G, R329A, L347F, L347Y, L347I, M351A, H353R, S361G, F362S, Y379S, L386A, K388G, H398A, K401R, K401D, T407S, L409G, S420T, P424A, F425S, P427A, D428G, H429A, Y430T, R431K, R431G, Y432S, Y432A, Y432F, or a single combination thereof, respectively; Groups LXIII-CXXIV (claims 36-40, 48-50), drawn to a mutant SAH hydrolase, a fusion protein comprising said hydrolase and a kit comprising said hydrolase, wherein said hydrolase comprises the amino acid sequence set forth in SEQ ID NO: 1 and comprises the mutation R38E, C53S, L54G, T57G, T57S, E59D, N80G, S83G, Y100T, K121A, D131E, D134E, E155G, T157G, T158Y, T159Y, N181D, N181A, D190A, N191A, L214A, Y221S, K226A, F235S, I240L, N248A, D263G, G269D, R285D, D292G, H301T, K309R, K322G, R329A, L347F, L347Y, L347I, M351A, H353R, S361G, F362S, Y379S, L386A, K388G, H398A, K401R, K401D, T407S, L409G, S420T, P424A, F425S, P427A, D428G, H429A, Y430T, R431K, R431G, Y432S, Y432A, Y432F, or a single combination thereof, respectively; and Groups CXXV-CLXXXVI (claims 41-47), drawn to a polynucleotide encoding a mutant SAH hydrolase, host cells, vectors and a method of producing said hydrolase, wherein said hydrolase comprises the amino acid sequence set forth in SEQ ID NO: 1 and comprises the mutation R38E, C53S, L54G, T57G, T57S, E59D, N80G, S83G,

Y1O0T, K12IA, D13IE, D134E, E155G, T157G, T158Y, T159Y, N18ID, N18IA, D190A, N19IA, L214A, Y221S, K226A, F235S, I240L, N248A, D263G, G269D, R285D, D292G, H301T, K309R, K322G, R329A, L347F, L347Y, L347I, M351A, H353R, S361G, F362S, Y379S, L386A, K388G, H398A, K401R, K401D, T407S, L409G, S420T, P424A, F425S, P427A, D428G, H429A, Y430T, R431K, R431G, Y432S, Y432A, Y432F, or a single combination thereof. Applicants hereby elect Group I (claims 1-35), without traverse.

The Office has requested a species election with regards to the mutations listed for the mutant enzyme. Applicants hereby elect the mutation T158Y (Group XV).

Applicants expressly reserve their right under 35 U.S.C. § 121 to file a divisional application directed to the nonelected subject matter during the pendency of this application, or an application claiming priority from this application.

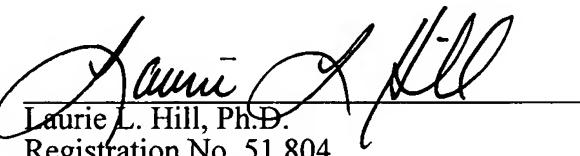
Applicants request examination of the elected subject matter on the merits.

In the unlikely event that the transmittal letter is separated from this document and the Patent Office determines that an extension and/or other relief is required, Applicants petition for any required relief including extensions of time and authorizes the Assistant Commissioner to charge the cost of such petitions and/or other fees due in connection with the filing of this document to Deposit Account No. 03-1952 referencing docket no. 466992000221. However, the Assistant Commissioner is not authorized to charge the cost of the issue fee to the Deposit Account.

Respectfully submitted,

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By:


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